

IN THE CLAIMS

Please amend the claims as follows (a marked-up copy of the claim amendments is provided as an attachment to this Amendment):

6. (Amended - Clean Text) A fluid mixing device as claimed in claim 5 wherein said first fluid inlet is directed substantially toward said centrally disposed aperture.

11. (Amended - Clean Text) A fluid mixing device as claimed in claim 10 wherein said chamber includes an outer wall extending substantially around the perimeter of said region surrounding the bluff body.

13. (Amended - Clean Text) A fluid mixing device as claimed in claim 12, wherein the geometric center of a cross-section of each of the flow channels defined by said corrugated profile is substantially equidistant from the bluff body and from the outer wall.

14. (Amended - Clean Text) A fluid mixing device as claimed in claim 12, wherein the geometric centers of the cross-section of each of the flow channels defined by said corrugated profile are alternately substantially closer to the outer wall and substantially closer to the bluff body.

15. (Amended - Clean Text) A fluid mixing device as claimed in claim 14 wherein the flow channels having cross-sections with geometric centers substantially closer to the outer wall form said second fluid inlets and the flow channels having cross-sections with geometric centers substantially closer to the bluff body form said mixed fluid outlets.

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16. (Twice Amended-Clean Text) A fluid mixing device as claimed in claim 10 wherein said corrugated profile is of triangular form so that said flow channels are generally triangular in cross section.

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23. (Amended-Clean Text) A fluid mixing device as claimed in claim 22 wherein the spacing h of the first fluid inlet from said opposite end satisfies the relationship $0 < h/L < 1$ where L is the distance from the opposite end to the bluff body.

Please add the following claims for consideration by the Examiner:

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--- 33. A fluid mixing device including a chamber, a bluff body defining one end of the chamber, a first fluid inlet disposed toward an opposite end of the chamber from said bluff body and arranged to direct a first fluid toward said bluff body, a region substantially surrounding said bluff body including a flow divider defining at least one second fluid inlet configured to provide a second fluid to said chamber and at least one mixed fluid outlet configured to emit a mixture of said first fluid and said second fluid from said chamber while said at least one second fluid inlet provides a second fluid to said chamber, said first and second inlets and said mixed fluid outlet being configured and positioned so that a fluid flow from said first fluid inlet and said at least one second fluid inlet establishes a recirculating vortex system within said chamber that mixes said first fluid and said second fluid.

34. A fluid mixing device including a chamber, a bluff body defining one end of the

chamber, a first fluid inlet disposed toward an opposite end of the chamber from said bluff body that directs a first fluid toward said bluff body, a region substantially surrounding said bluff body including a flow divider defining at least one second fluid inlet to said chamber that provides a second fluid and at least one mixed fluid outlet from said chamber that emits a mixed fluid, a fluid flow from said first fluid inlet and said at least one second fluid inlet establishing a recirculating vortex system within said chamber and a mixture of fluids from said first fluid inlet and said at least one second fluid inlet being emitted through said mixed fluid outlet.

35. The fluid mixing device of claim 1, wherein a direction of fluid entry to said chamber from said first fluid inlet is substantially opposite a direction of fluid entry to said chamber from said at least one second fluid inlet.

36. The fluid mixing device of claim 33, wherein a direction of fluid entry to said chamber from said first fluid inlet is substantially opposite a direction of fluid entry to said chamber from said at least one second fluid inlet.

37. The fluid mixing device of claim 34, wherein a direction of fluid entry to said chamber from said first fluid inlet is substantially opposite a direction of fluid entry to said chamber from said at least one second fluid inlet.---
